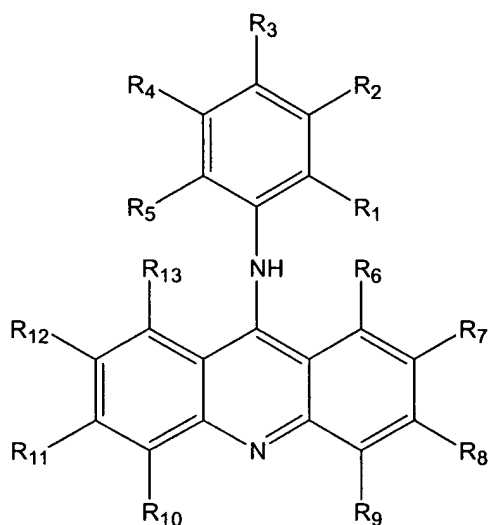


WHAT IS CLAIMED IS:

1. A compound having formula (I):



(I)

wherein,

each of R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , R_{12} , and R_{13} is, independently, hydrogen, halo, nitro, hydroxyl, C_1 - C_6 alkyl, C_1 - C_6 alkoxy, C_1 - C_6 hydroxyalkyl, $CONHR^a$, NR^bR^c , $CONH(CH_2)_mNR^bR^c$, $L-N(CH_2CH_2Cl)_2$, or a DNA minor groove binder;

L is $(CH_2)_p$ or $O(CH_2)_q$;

m is 1, 2, 3, or 4;

p is 0, 1, 2, 3, or 4;

q is 1, 2, 3, 4, 5, 6, 7, or 8;

in which, R^a is C_1 - C_6 alkyl; each of R^b and R^c is, independently, hydrogen, C_1 - C_6 alkyl, COR^d , or $COOR^d$; R^d is C_1 - C_6 alkyl, C_6 - C_{10} aryl, or C_7 - C_{12} aralkyl; and provided that at least one of R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , R_{12} , and R_{13} is $L-N(CH_2CH_2Cl)_2$, or a salt thereof.

- 21 2. The compound of claim 1, wherein L is $(\text{CH}_2)_p$.
- 22
- 23 3. The compound of claim 2, wherein p is 0 or 1.
- 24
- 25 4. The compound of claim 1, wherein L is $\text{O}(\text{CH}_2)_q$.
- 26
- 27 5. The compound of claim 4, wherein q is 2 or 4.
- 28
- 29 6. The compound of claim 1, wherein one of R_1 , R_2 , R_3 , R_4 , or R_5 is
- 30 L- $\text{N}(\text{CH}_2\text{CH}_2\text{Cl})_2$.
- 31
- 32 7. The compound of claim 6, wherein R_2 or R_3 is L- $\text{N}(\text{CH}_2\text{CH}_2\text{Cl})_2$.
- 33
- 34 8. The compound of claim 7, wherein R_2 is L- $\text{N}(\text{CH}_2\text{CH}_2\text{Cl})_2$.
- 35
- 36 9. The compound of claim 8, wherein L is $(\text{CH}_2)_p$.
- 37
- 38 10. The compound of claim 9, wherein p is 0 or 1.
- 39
- 40 11. The compound of claim 8, wherein L is $-\text{O}(\text{CH}_2)_q-$.
- 41
- 42 12. The compound of claim 11, wherein q is 2 or 4.
- 43
- 44 13. The compound of claim 8, wherein each of R_1 , R_3 , R_4 , and R_5 is,
- 45 independently, hydrogen, C_1 - C_6 alkyl, C_1 - C_6 alkoxy, or C_1 - C_6 hydroxyalkyl.
- 46
- 47 14. The compound of claim 13, wherein R_4 is C_1 - C_6 hydroxyalkyl.
- 48
- 49 15. The compound of claim 14, wherein R_4 is CH_2OH .
- 50

51 16. The compound of claim 13, wherein each of R₁, R₃, R₄, and R₅ is
52 hydrogen.

54 17. The compound of claim 7, wherein R₃ is L-N(CH₂CH₂Cl)₂.

56 18. The compound of claim 17, wherein L is (CH₂)_p.

58 19. The compound of claim 18, wherein p is 0 or 1.

60 20. The compound of claim 17, wherein L is -O(CH₂)_q-.

62 21. The compound of claim 20, wherein q is 2 or 4.

64 22. The compound of claim 17, wherein each of R₁, R₂, R₄, and R₅ is,
65 independently, hydrogen, C₁-C₆ alkyl, C₁-C₆ alkoxy, or C₁-C₆ hydroxyalkyl.

67 23. The compound of claim 21, wherein each of R₁, R₂, R₄, and R₅ is
68 hydrogen.

70 24. The compound of claim 6, wherein each of R₆, R₇, R₈, R₉, R₁₀, R₁₁, R₁₂,
71 and R₁₃ is, independently, hydrogen, halo, nitro, C₁-C₆ alkyl, C₁-C₆ alkoxy, CONHR^a,
72 CONH(CH₂)_mNR^bR^c, L-N(CH₂CH₂Cl)₂, or a DNA minor groove binder.

74 25. The compound of claim 24, wherein each of R₆, R₇, R₈, R₉, R₁₀, R₁₁, R₁₂,
75 and R₁₃ is, independently, hydrogen, C₁-C₆ alkyl, CONH(CH₂)_mNR^bR^c,
76 L-N(CH₂CH₂Cl)₂, or a DNA minor groove binder.

78 26. The compound of claim 25, wherein one of R₉ and R₁₀ is
79 CONH(CH₂)_mNR^bR^c, L-N(CH₂CH₂Cl)₂, or a DNA minor groove binder, and the other is
80 C₁-C₆ alkyl or hydrogen.

27. The compound of claim 26, wherein one of R_9 and R_{10} is $\text{CONH}(\text{CH}_2)_m\text{NR}^b\text{R}^c$ and the other is $\text{C}_1\text{-C}_6$ alkyl or hydrogen.

28. The compound of claim 27, wherein one of R_9 and R_{10} is $\text{CONH}(\text{CH}_2)_2\text{N}(\text{CH}_3)_2$ and the other is CH_3 or hydrogen.

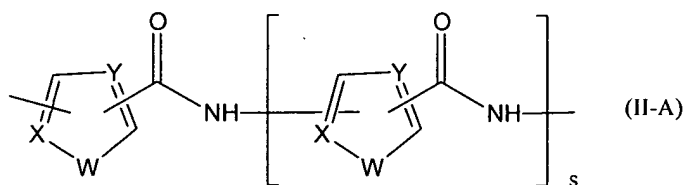
29. The compound of claim 26, wherein one of R_9 and R_{10} is $\text{L-N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ and the other is $\text{C}_1\text{-C}_6$ alkyl or hydrogen.

30. The compound of claim 29, wherein one of R_9 and R_{10} is $\text{N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ or $\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ and the other is CH_3 or hydrogen.

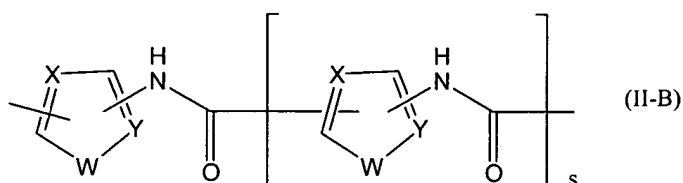
31. The compound of claim 29, wherein one of R_9 and R_{10} is $\text{O}(\text{CH}_2)_2\text{N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ or $\text{O}(\text{CH}_2)_4\text{N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ and the other is CH_3 or hydrogen.

32. The compound of claim 26, wherein one of R_9 and R_{10} is a DNA minor groove binder and the other is $\text{C}_1\text{-C}_6$ alkyl or hydrogen.

33. The compound of claim 32, wherein one of R_9 and R_{10} is $\text{CONH}(\text{CH}_2)_r\text{-J-W-(CH}_2)_t\text{R}^e$ and the other is CH_3 or hydrogen; wherein r is 1, 2, 3, 4, or 5; t is 1, 2, 3, or 4, 5, or 6; J is -CONH- or -NHCO- ; W is:



or

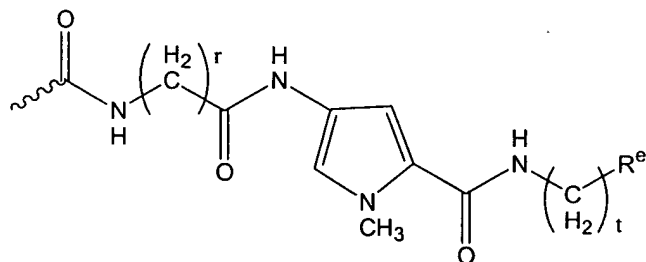


;

in which s is 0, 1, 2, 3, or 4; each of X and Y is, independently, N or CR^f and W is NR^g , O , or S ; R^e is NR^bR^c , $NHCHO$, or $NHC(=NH)NH_2$; each of R^b and R^c is, independently, hydrogen, C_1 - C_6 alkyl, COR^d , or $COOR^d$; and each of R^f and R^g is, independently, hydrogen or C_1 - C_6 alkyl.

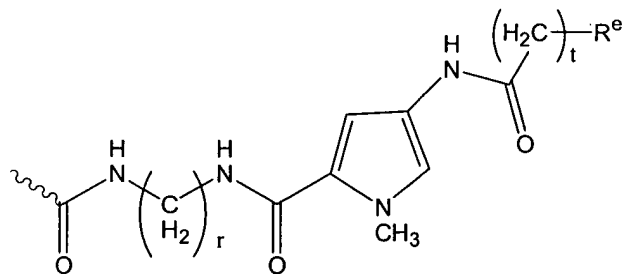
34. The compound of claim 33, wherein s is 0, each of X and Y is CH , and W is NCH_3 .

35. The compound of claim 34, wherein one of R_9 and R_{10} is:



36. The compound of claim 35, wherein r and t are both 3, and R^e is $N(CH_3)_2$, $NHCHO$, or $NHC(=NH)NH_2$.

37. The compound of claim 34, wherein one of R_9 and R_{10} is:



38. The compound of claim 36, wherein r and t are both 3, and R^e is $N(CH_3)_2$, $NHCHO$, or $NHC(=NH)NH_2$.

39. The compound of claim 24, wherein each of R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , R_{12} , and R_{13} is hydrogen.

40. The compound of claim 1, wherein one of R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , R_{12} , and R_{13} is $L-N(CH_2CH_2Cl)_2$.

41. The compound of claim 40, wherein R_9 is $L-N(CH_2CH_2Cl)_2$.

42. The compound of claim 41, wherein L is $(CH_2)_p$.

43. The compound of claim 42, wherein p is 0 or 1.

44. The compound of claim 41, wherein L is $-O(CH_2)_q-$.

45. The compound of claim 44, wherein q is 2 or 4.

46. The compound of claim 41, wherein each of R_6 , R_7 , R_8 , R_{10} , R_{11} , R_{12} , and R_{13} is, independently, hydrogen, halo, nitro, hydroxyl, C_1 - C_6 alkyl, or C_1 - C_6 alkoxy.

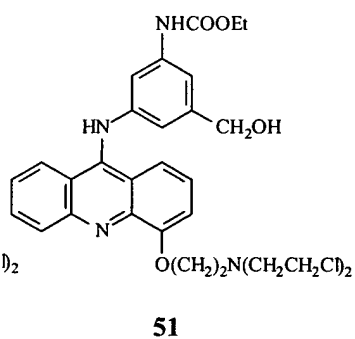
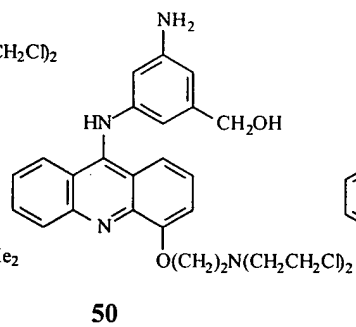
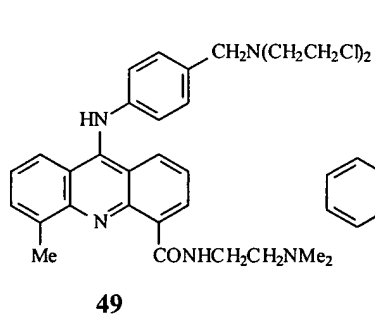
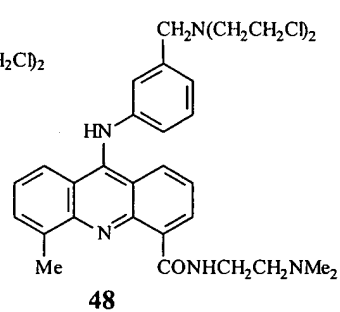
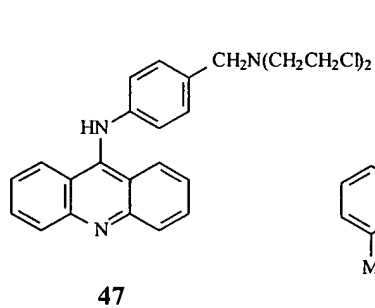
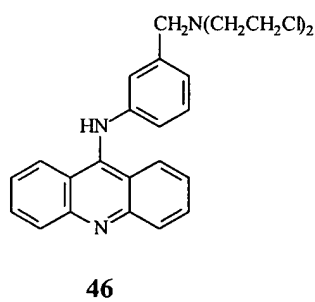
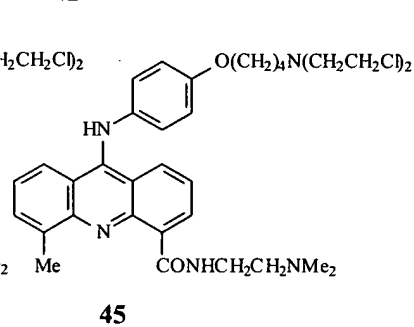
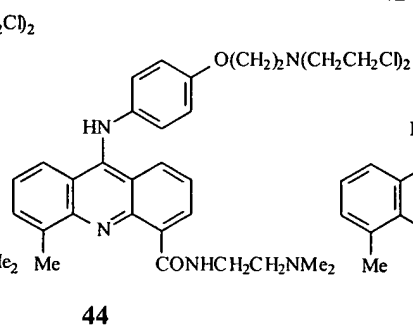
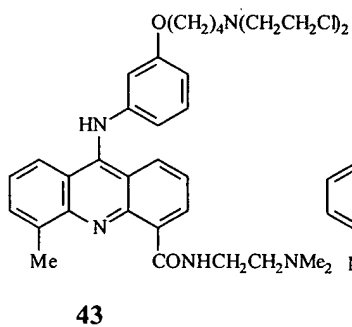
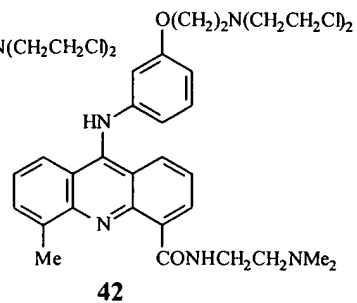
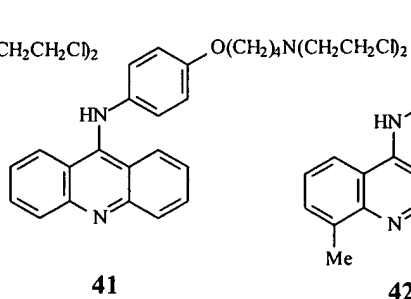
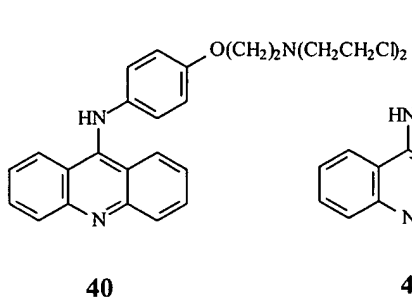
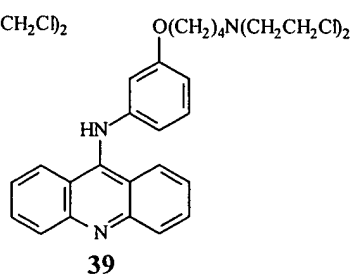
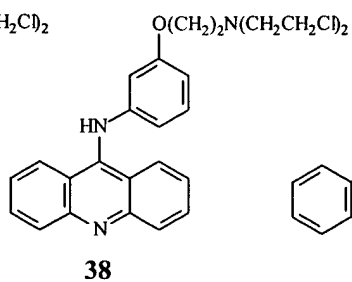
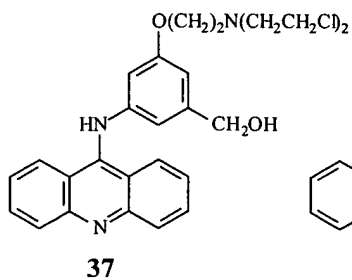
47. The compound of claim 40, wherein each of R_1 , R_2 , R_3 , R_4 , or R_5 is, independently, hydrogen, hydroxyl, C_1 - C_6 alkyl, C_1 - C_6 alkoxy, C_1 - C_6 hydroxyalkyl, or NR^bR^c .

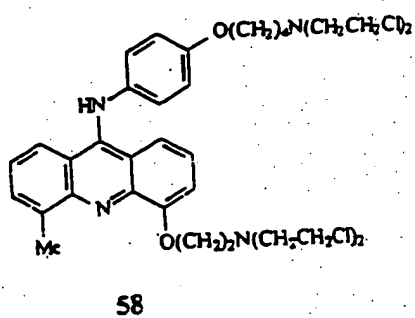
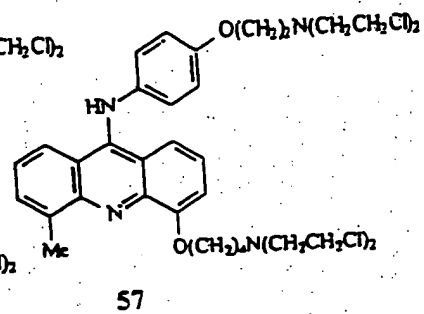
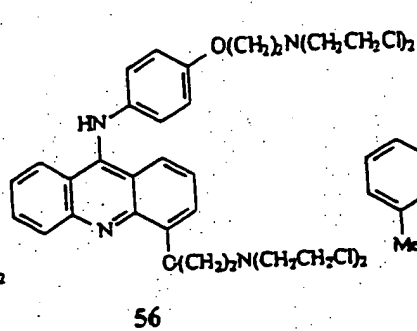
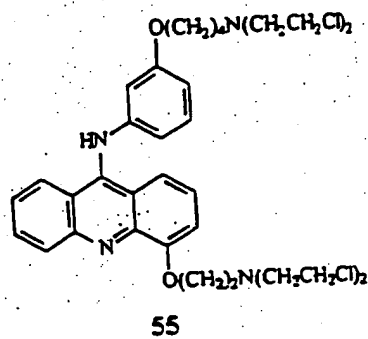
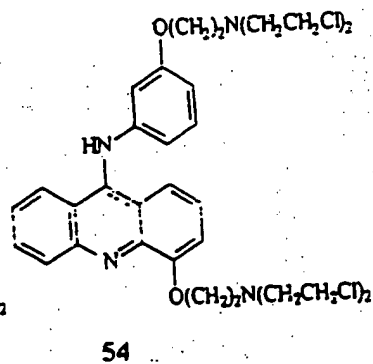
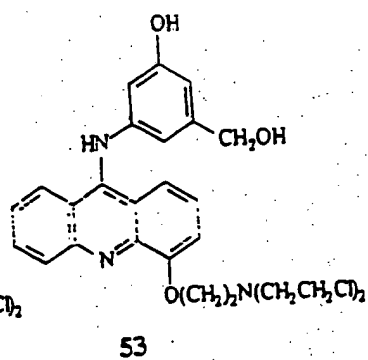
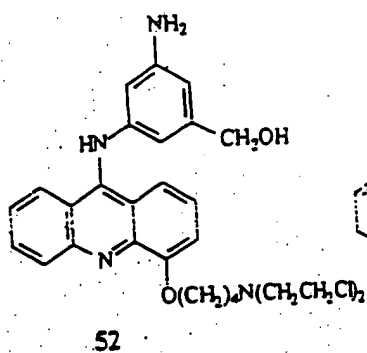
48. The compound of claim 47, wherein R_2 is hydroxyl or NR^bR^c and R_4 is C_1 - C_6 hydroxyalkyl.

49. The compound of claim 48, wherein R_2 is NH_2 or $NHCOOCH_2CH_3$.

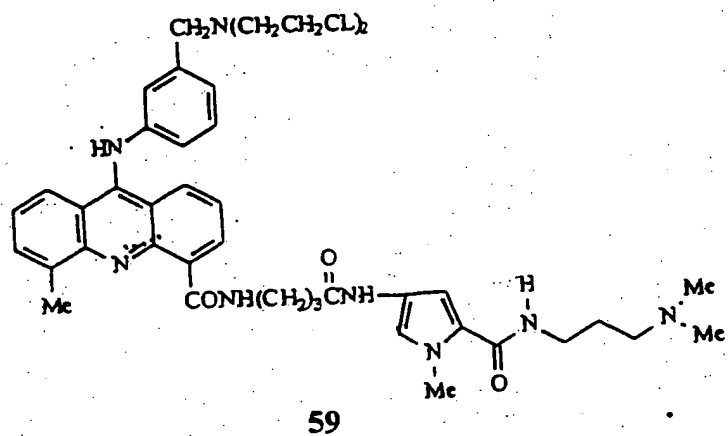
50. The compound of claim 48, wherein R_4 is CH_2OH .

155 51. The compound of claim 1, wherein the compound is:
156

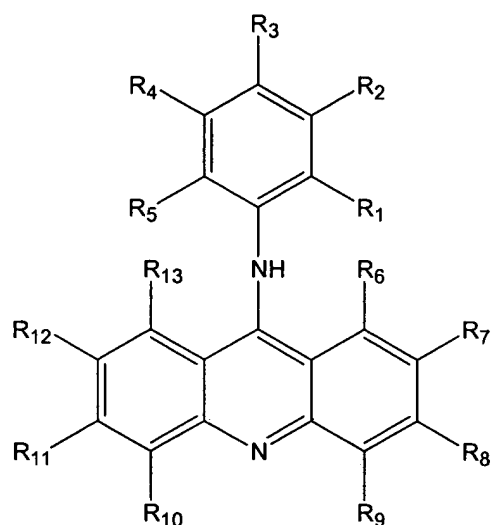




or



52. A pharmaceutical composition comprising a compound of formula (I) and a pharmaceutically acceptable carrier:



(I)

wherein,

each of R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , R_{12} , and R_{13} is, independently, hydrogen, halo, nitro, hydroxyl, C_1 - C_6 alkyl, C_1 - C_6 alkoxy, C_1 - C_6 hydroxyalkyl, $CONHR^a$, NR^bR^c , $CONH(CH_2)_mNR^bR^c$, $L-N(CH_2CH_2Cl)_2$, or a DNA minor groove binder;

L is $(CH_2)_p$ or $O(CH_2)_q$;

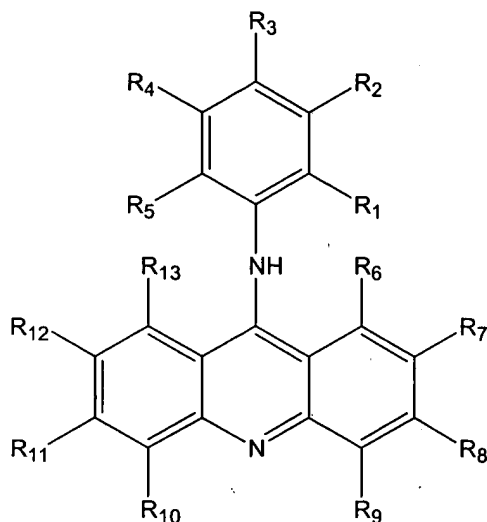
m is 1, 2, 3, or 4;

p is 0, 1, 2, 3, or 4;

q is 1, 2, 3, 4, 5, 6, 7, or 8;

in which, R^a is C_1 - C_6 alkyl; each of R^b and R^c is, independently, hydrogen, C_1 - C_6 alkyl, COR^d , or $COOR^d$; R^d is C_1 - C_6 alkyl, C_6 - C_{10} aryl, or C_7 - C_{12} aralkyl; provided that at least one of R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , R_{12} , and R_{13} is $L-N(CH_2CH_2Cl)_2$; or a pharmaceutically acceptable salt thereof.

53. A method of treating cancer, the method comprising administering to a subject in need thereof an effective amount of a compound of formula (I):



(I)

wherein,

each of R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , R_{12} , and R_{13} is, independently, hydrogen, halo, nitro, hydroxyl, C_1 - C_6 alkyl, C_1 - C_6 alkoxy, C_1 - C_6 hydroxyalkyl, $CONHR^a$, NR^bR^c , $CONH(CH_2)_mNR^bR^c$, $L-N(CH_2CH_2Cl)_2$, or a DNA minor groove binder;

L is $(CH_2)_p$ or $O(CH_2)_q$;

m is 1, 2, 3, or 4;

p is 0, 1, 2, 3, or 4;

q is 1, 2, 3, 4, 5, 6, 7, or 8;

in which, R^a is C_1 - C_6 alkyl; each of R^b and R^c is, independently, hydrogen, C_1 - C_6 alkyl, COR^d , or $COOR^d$; R^d is C_1 - C_6 alkyl, C_6 - C_{10} aryl, or C_7 - C_{12} aralkyl; and provided that at least one of R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , R_{12} , and R_{13} is $L-N(CH_2CH_2Cl)_2$, or a pharmaceutically acceptable salt thereof.